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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/848,831-Conf. #4783
				Filing Date	May 19, 2004
				First Named Inventor	James F. Bredt
				Art Unit	1794
				Examiner Name	S. Ahmed
Sheet	1	of	6	Attorney Docket Number	ZCO-100

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A359*	US-20030173695	09-18-2003	Monkhouse et al.	
	A360*	US-20040056378-A1	03-25-2004	Bredt et al.	
	A361*	US-20040232583-A1	11-25-2004	Monsheimer et al.	
	A362*	US-20050001356	01-06-2005	Tochimoto et al.	
	A363*	US-20050059757	03-17-2005	Bredt et al.	
	A364*	US-20050093194	05-05-2005	Oriakhi et al.	
	A365*	US-20050110177	05-26-2005	Schulman et al.	
	A366*	US-20050179167	08-18-2005	Hachikian	
	A367*	US-20050212163	09-29-2005	Bausinger et al.	
	A368*	US-20050230870	10-20-2005	Oriakhi	
	A369*	US-20060071367	04-06-2006	Hunter et al.	
	A370*	US-20060141145	06-29-2006	Davidson et al.	
	A371*	US-20070007698	01-11-2007	Sano	
	A372*	US-20070029698	02-08-2007	Rynerson et al.	
	A373*	US-3,890,305	06-17-1975	Weber et al.	
	A374*	US-5,182,134	01-26-1993	Sato	
	A375*	US-5,328,539	07-12-1994	Sato	
	A376*	US-5,338,611	08-16-1994	Lause et al.	
	A377*	US-5,677,107	10-14-1997	Neckers	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B23	CN-1810492	08-02-2006	Univ Nanjing		✓
	B24	CN-1857930	11-08-2006	Univ Xi An Jiaotong		✓
	B25**	DE-197 27 677	01-07-1999	Huels Chemische Werke Ag		✓
	B26**	EP-1 226 019-B1	07-31-2002	Z Corporation		✓
	B27	EP-1 475 221-A	11-10-2004	Fuji Photo Film Co Ltd		✓
	B28	EP-1491517	12-29-2004	Hewlett Packard Development Co		✓

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	A378*	US-5,703,138	12-30-1997	Cantor et al.	
	A379*	US-5,940,674	08-17-1999	Sachs et al.	
	A380*	US-6,136,948	10-24-2000	Dickens, Jr. et al.	
	A381*	US-6,348,679	02-19-2002	Ryan et al.	
	A382*	US-6,363,606	04-02-2002	Johnson, Jr. et al.	
	A383*	US-6,375,874	04-23-2002	Russell et al.	
	A384*	US-6,433,038	08-13-2002	Tanabe et al.	
	A385*	US-6,531,086	03-11-2003	Larsson et al.	
	A386*	US-6,540,784	04-01-2003	Barlow et al.	
	A387*	US-6,600,142	07-29-2003	Ryan et al.	
	A388*	US-6,713,125	03-30-2004	Sherwood et al.	
	A389*	US-6,742,456	06-01-2004	Kasperchik et al.	
	A390*	US-6,799,959	10-05-2004	Tochimoto et al.	
	A391*	US-6,930,144	08-16-2005	Oriakhi	
	A392*	US-6,989,115-A1	01-24-2006	Russell et al.	
	A393*	US-7,037,382	05-02-2006	Davidson et al.	
	A394*	US-7,087,109	08-08-2006	Bredt et al.	
	A395*	US-7,120,512	10-10-2006	Kramer et al.	
	A396*	US-7,285,234	10-23-2007	Pfeifer et al.	

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	B29	EP-1498277-A	01-19-2005	Hewlett Packard Development Co		✓
	B30	EP-1512519-A	03-09-2005	Hewlett Packard Development Co		✓
	B31	EP-1623816	02-08-2006	Z Corporation		✓
	B32	WO-02/064354	08-22-2002	Vantico Ltd.		✓
	B33**	WO-02/38677	05-16-2002	Gentex Corp		✓
	B34	WO-03/016030	02-27-2003	Vantico AG		✓

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	A397*	US-7,300,613	11-27-2007	Sano et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B35**	WO-04/048463	06-10-2004	Parodi Fabrizio et al.		✓
	B36	WO-04/062927	07-29-2004	Silverbrook Res Pty Ltd		✓
	B37	WO-04096514	11-11-2004	Objet Geometries Ltd		✓
	B38**	WO-05/011959	02-10-2005	Loughborough University Entpr et al.		✓
	B39	WO-05/023524	03-17-2005	Z Corporation		✓
	B40	WO-05/025074	03-17-2005	Motorola, Inc.		✓

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	B41**	WO-05/090055	09-29-2005	Degussa et al.		✓
	B42**	WO-05/105412	11-10-2005	Degussa et al.		✓
	B43	WO-07/039450	04-12-2007	Pts Software BV		✓
	B44	WO-07/147625	12-27-2007	Stiftung Caesar Center Of Advanced European Studies And Research		✓
	B45**	WO-96/06881	03-07-1996	Dtm Corporation		✓

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NON PATENT LITERATURE DOCUMENTS			
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	C26	Adamson, Physical Chemistry of Surfaces, Interscience Publishers, Inc. (1967).	
	C27**	Aranson et al., The Physics of Granular Media, pp. 143-164, Hinrichsen & Wolf, eds. (Wiley-VCH 2004).	
	C28	Brandup et al., Polymer Handbook, pp. 675-714, John Wiley & Sons (1999).	
	C29**	Das, Advanced Soil Mechanics, pp. 313-26 (Hemisphere Press Press 1997).	
	C30**	Definition of "Colorant," Hawley's Condensed Chemical Dictionary, 14th Ed. (2001) p. 287.	
	C31	Hamill, Search Report dated January 30, 2008, 2 pages.	
	C32	Hamill, Search Report dated January 4, 2008, 3 pages.	
	C33	http://toxics.usgs.gov/definitions/kow.html , printed June 24, 2008.	
	C34	http://www.cibasc.com/brightening.htm , printed June 24, 2008.	
	C35	http://www.devicelink.com/mddi/archive/99/09/006.html , printed June 24, 2008.	

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	C36**	International Search Report & Written Opinion for PCT/US2007/008046, November 15, 2007, 23 pages.	
	C37	International Search Report & Written Opinion for PCT/US2007/025075, mailed 6/12/2008.	
	C38	International Search Report & Written Opinion for PCT/US2008/000366, mailed 6/20/08. (ZCO-117PC)	
	C39**	Invitation to Pay Additional Fees & Partial ISR for PCT/US2007/008046, September 18, 2007 (6 pages).	
	C40	Knapczyk, "Polyallyl Glycidyl Ether Resins for Very Fast Curing High Performance Coatings," 65th Ann. Meeting of Feder. of Soc. for Coating Tech., Oct. 1987, 16 pages.	
	C41	Pizzi et al., <u>Handbook of Adhesive Technology</u> , pp. 761-773, Marcel Dekker, Inc. (2003). (From ZCO-118)	
	C42	Rulison, "Wettability Studies for Porous Solids Including Powders and Fibrous Materials- Technical Notice # 302," (1996). (From ZCO-118)	

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